

ABSTRACT OF THE DISCLOSURE

Disclosed is an optical pick-up actuator including a tilt-compensating magnetic circuit adapted to conduct a tilt compensation depending on current flowing a focusing coil attached to a lens holder maintained in a suspended state. The tilt-compensating magnetic circuit includes magnets or electromagnets for generating a tilt-compensating magnetic field. Alternatively, the tilt-compensating magnetic circuit is configured to allow focusing and tracking magnets and a tracking coil to be movable toward the outer periphery of a disk, to which the optical pick-up actuator is applied. In either configuration, the tilt-compensating magnetic circuit generates a tilt-compensating magnetic field depending on the current flowing through the focusing coil. In accordance with the optical pick-up actuator of the present invention can conduct a tilt compensation depending on a control current flowing the focusing coil at the point of time when a focusing control is required. The optical pick-up actuator also automatically traces a tilt component resulting from a run-out phenomenon occurring due to a deflection of the disk. Thus, the optical pick-up actuator has a stable control performance.